

19. Differentiate between Toast notifications, Status bar notifications, and Dialog notifications with examples.
20. Explain the steps involved in registering your application with the Google Play Store for publishing. What information is required?
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APRIL/MAY 2024

**DCS41/GCS41 — MOBILE APPLICATION
DEVELOPMENT**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is the Android Manifest file, and what role does it play in Android development?
2. List three features of the Android platform.
3. Evaluate the benefits of using Fragments over multiple Activities.
4. Describe the concept of Activity Stacks in Android.
5. When would you use a Scroll View in your app?
6. What is the Action Bar, and what functionality does it offer?
7. Explain the purpose of a Toast notification.
8. Why is opting SQLite database to store app data?

9. What is the primary purpose of the Broadcast Receiver object in an Android application?
10. What is the process for exporting an Android application for publishing?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss the significance of the Manifest file in an Android application and its role in the application's lifecycle.

Or

- (b) Differentiate between Android Virtual and Physical Devices for testing applications.

12. (a) List the key steps involved in creating an Activity in an Android application.

Or

- (b) Apply techniques to hide the title bar and manage screen orientation in an Activity.

13. (a) Explain the characteristics and usage scenarios for various views in Android, including Text, Edit Text, and Button.

Or

- (b) Identify the various types of Views available in Android UI development.

14. (a) How can you display images in the Grid View in Android applications? Provide a detailed explanation.

Or

- (b) Compare and contrast Shared Preferences and SQLite Database for data storage in Android apps.

15. (a) Describe the methods available to retrieve phone information such as device number, network operator, and signal strength.

Or

- (b) Describe the process of sending SMS messages using Intents in Android applications.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Analyze the architecture of the Android application framework, highlighting its various layers and their functionalities.
17. What are the different types of Intent? Explain each with purpose and example.
18. Explain the differences between Linear Layout, Relative Layout, Scroll Layout, Table Layout, Frame Layout, and Tab Layout in Android.